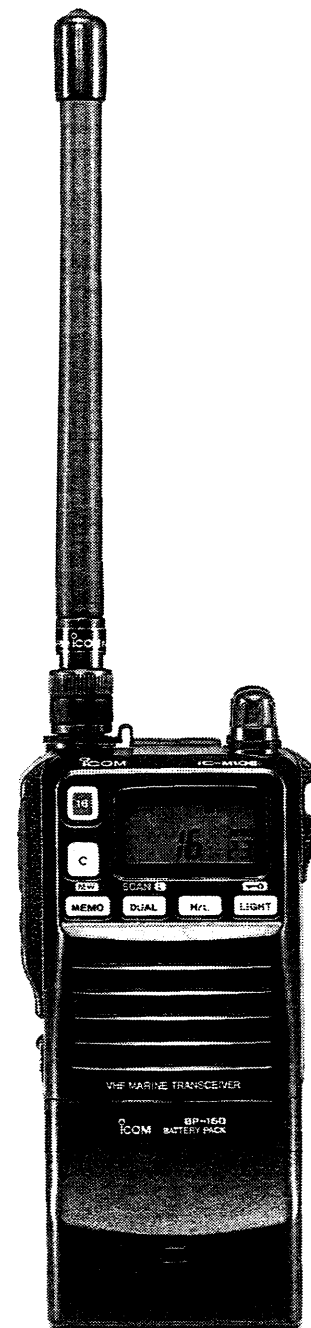


INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER  
**IC-M10E**

Icom Inc.



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## IMPORTANT

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**READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS INSTRUCTION MANUAL** – This instruction manual contains important safety and operating instructions for the IC-M10E.

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## CAUTIONS

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**NEVER** allow children to operate the transceiver.

**KEEP** the transceiver at least 1 m away from the ship's navigation compass.

**NEVER** charge battery packs except in the methods described in this manual.

**AVOID** exposing the transceiver to direct sunlight for long periods of time.

**AVOID** operating the transceiver in areas with temperatures below  $-20^{\circ}\text{C}$  or above  $+60^{\circ}\text{C}$ .

**BE CAREFUL!** If immersed in fresh or salt water, permanent damage may result.

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## ■ Operating rules

### • PRIORITIES

- 1) Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- 2) You must monitor channel 16 when you are not operating on another channel.
- 3) False or fraudulent distress calls are prohibited under law.

### • PRIVACY

- 1) Information overheard but not intended for you cannot lawfully be used in any way.
- 2) Indecent or profane language is prohibited.

### • RADIO LICENSES

#### (1) SHIP STATION LICENSE

When your craft is equipped with a VHF FM transceiver, you must have a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed.

Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for radio purposes.

#### (2) OPERATOR'S LICENSE

A Restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes. You can usually obtain this permit by mail.

The Restricted Radiotelephone Operator Permit must be posted near the transceiver or be kept with the operator. Only a licensed radio operator may operate a transceiver.

However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is usually required to be on hand.

## ■ Unpacking and accessory attachment

### ◇ UNPACKING

The following accessories are supplied:

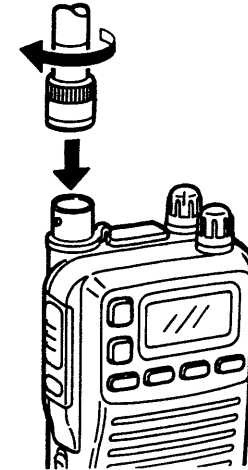
	Qty.
① Flexible antenna (FA-B55V) .....	1
② Handstrap .....	1
③ Belt clip .....	1
④ Battery charger* (AD-54) .....	1
⑤ AC adapter* (BM-113U/E) .....	1
⑥ Battery pack or battery case* .....	1

\*Not supplied with some versions.

### ◇ FLEXIBLE ANTENNA

Mate the 2 notches on the antenna base with the two protrusions on the antenna connector; then, while pushing the base towards the transceiver, rotate it clockwise until it clicks into place.

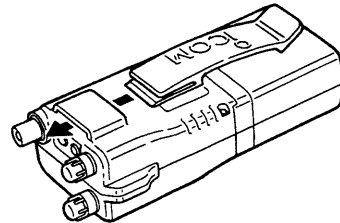
**CAUTION:** Transmitting without an antenna may damage the transceiver.



### ◇ BELT CLIP

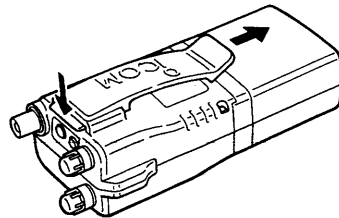
*To attach:*

Slide the belt clip into the plastic loop on the back of the transceiver.



*To remove:*

Push the top of the belt clip towards the transceiver and at the same time, push it downwards and free of the plastic loop.



### ◇ HANDSTRAP

Slide the handstrap through the loop on the side of the transceiver as illustrated at right. Facilitates carrying.



# 1 GETTING STARTED

## ■ Battery cautions

**NEVER** incinerate used battery packs. Internal battery gas may cause an explosion.

**NEVER** immerse the battery pack in water. If the battery pack becomes wet, be sure to wipe it dry **BEFORE** attaching it to the transceiver.

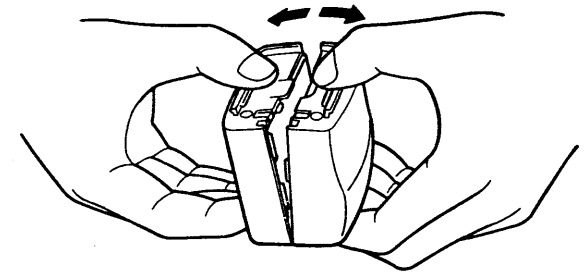
**NEVER** short terminals of the battery pack. Also, current may flow into nearby metal objects so be careful when placing battery packs in handbags, etc.

If your battery pack seems to have no capacity even after being charged, completely discharge it by leaving the power **ON** overnight. Then, fully charge the battery pack again. If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased.

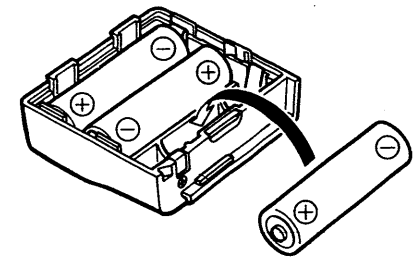
## ■ Installing dry cell batteries

When your transceiver comes equipped with a battery case (BP-130A) instead of a battery pack (BP-160 or BP-174), follow the instructions below for battery installation.

- ① Open the case as illustrated below.



- ② Install 6 × AA(R6) size dry cell batteries.
  - **BE SURE** to observe the correct polarities.



## ■ Battery charging

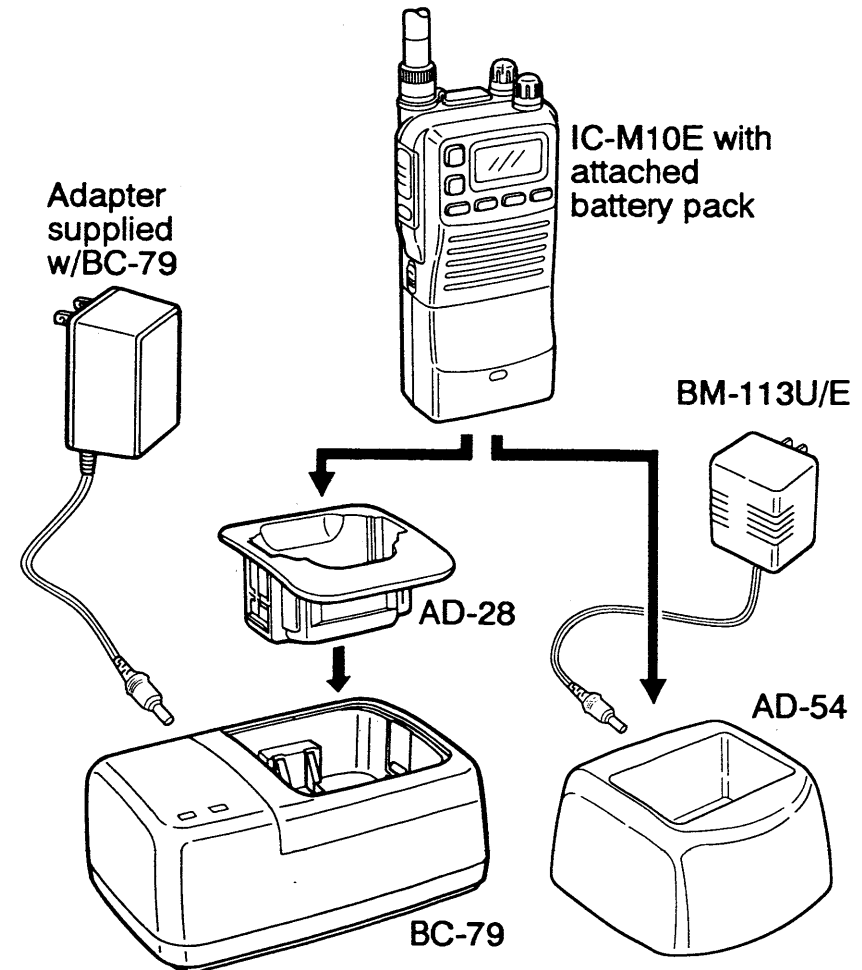
Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

**CAUTION:** To avoid damage to the transceiver, turn it OFF while charging.

- The BP-130A BATTERY CASE cannot be charged even when Ni-Cd batteries are installed.
- Recommended temperature range for charging: 10°C to +40°C.
- Use specified Icom chargers only.
- BC-79 accepts 12 V only via optional CP-13 when a cigarette lighter socket is used instead of an AC adapter.
- AD-54 accepts 12\* or 24 V via optional CP-1 when a cigarette lighter socket is used instead of an AC adapter.  
\*24 V only for charging the BP-174.

- ① Connect the AC adapter (supplied with the charger) between a domestic AC power outlet and the charger (BC-79 or AD-54).
- ② Insert the transceiver with attached battery pack (or the battery pack only) into the charger.
  - The charge indicator lights.
- ③ When charging is complete, the BC-79's charge indicator automatically turns OFF.
  - The AD-54 continues charging even when the battery pack is fully charged.

### ◇ Charging with the AD-54 or optional BC-79 + AD-28



**Charging time:** approx. 15 to 20 hours (AD-54)  
approx. 1 to 3 hours (BC-79 + AD-28)

# 2

## PANEL DESCRIPTION

### ■ Front panel

#### CHANNEL 16 SWITCH [16] (p. 8)

- Toggles between channel 16 and a regular channel.
- When [FUNC] is pushed and held, toggles between U.S.A. and International channels. (Not available for some versions.)

#### CALL SWITCH [C] (p. 8)

- Toggles between the call channel and a regular channel.

#### MEMO SWITCH [MEMO•MW] (p. 8)

- Selects a memory channel.
- When [FUNC] is pushed, writes the selected channel into a memory.

#### TRANSMIT POWER SWITCH [H/L]

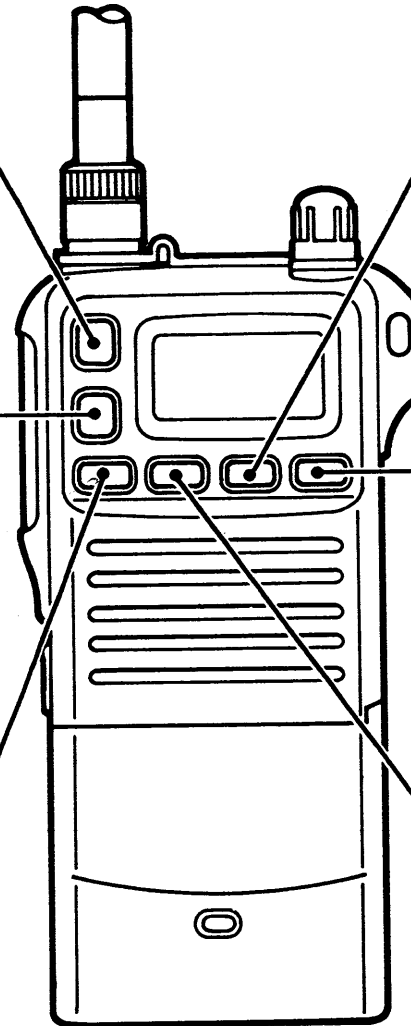
- (p. 9)
- Selects high or low output power.

#### LIGHT SWITCH [LIGHT•

- (pgs. 10, 16)
- Turns the function display lighting ON and OFF.
- In addition, when [FUNC] is pushed and held, activates the lock function.

#### DUAL WATCH SWITCH [DUAL•SCAN

- Starts and stops dual/tri-watch.\*
- When pushed and held, starts normal or priority scan.\*
- In addition, when [FUNC] is pushed and held, this switch locks out the indicated channel.
- \*Not available for some versions.





## ■ Top and side panels

### PTT SWITCH [PTT] (p. 9)

Push and hold to transmit; release to receive.

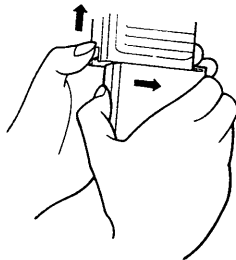
### FUNCTION SWITCH [FUNC]

Push and hold to activate the secondary functions of other switches.

### BATTERY RELEASE BUTTON

*To remove the battery pack:*

Push and hold the battery release button upwards, then slide the battery pack to the right with the transceiver facing you.



*To attach the battery pack:*

Mate the notched ends of the transceiver and the battery pack, and slide the battery pack into place.

### ANTENNA CONNECTOR (p. 2)

Connects the supplied antenna.

### EXTERNAL SPEAKER/MICROPHONE JACKS [SP/MIC] (p. 20)

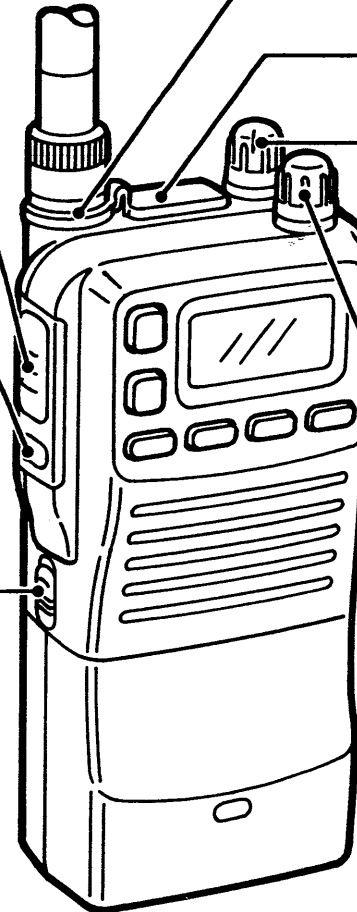
Connect an optional speaker-microphone.

### VOLUME CONTROL [OFF/VOL] (p. 9)

Turns power ON and adjusts the audio level.

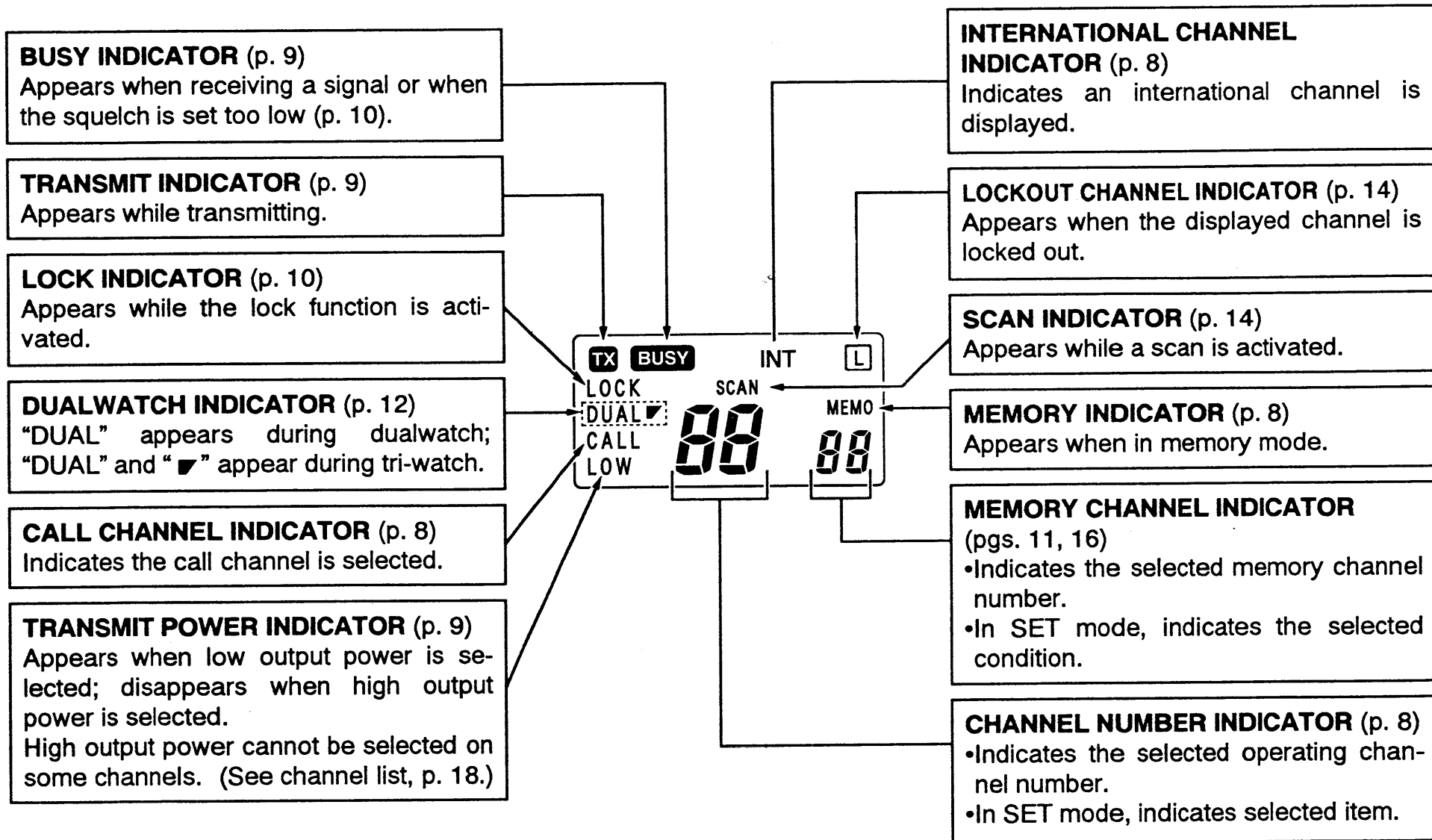
### CHANNEL SELECTOR [CHANNEL] (pgs. 8, 9)

- Sets an operating channel during normal operation.
- Sets a memory channel while in memory mode.
- Sets a squelch threshold level while pushing [FUNC].



## 2 PANEL DESCRIPTION

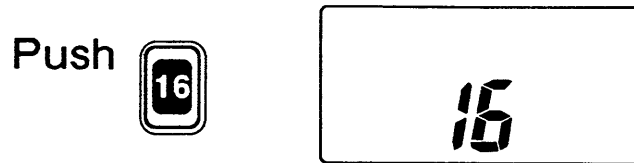
### ■ Function display



## ■ Channel selection

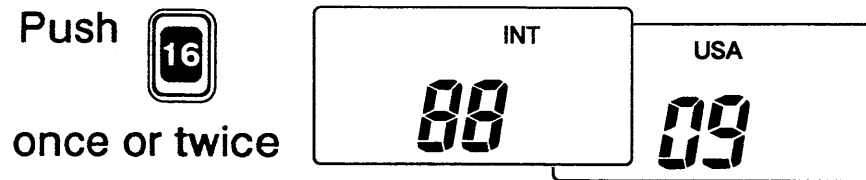
### ◇ Channel 16

Channel 16 is the distress channel. It is used for establishing initial contact with another station and for emergency communications. While standing by you are required to monitor channel 16.



### ◇ Regular channels

There are 55 international channels. Establish initial contact on channel 16, then move to an agreed upon channel for communications.

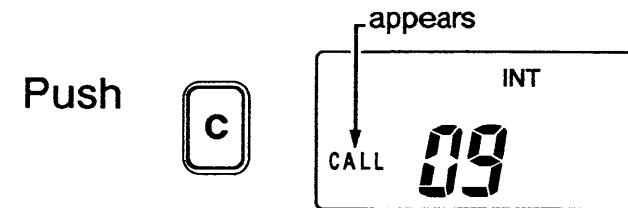


- Pushing [C] or [MEMO] twice also selects a regular channel.
- Rotate the channel selector to set the desired channel.
- While pushing [FUNC], push [16] to toggle the International and U.S.A. channels.\*

\*Not available for some versions.

### ◇ Call channel

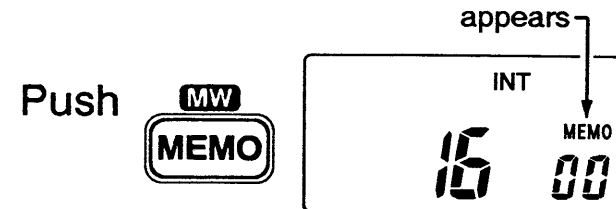
The call channel is used to store your most often-used channel for quick recall. In addition, the call channel is monitored during tri-watch. The default call channel differs depending on versions.



- See p. 11 for call channel programming.

### ◇ Memory channels

24 memory channels are used to store often-used frequencies for easy recall and scanning.



- Rotate the channel selector to set the desired memory channel.
- See p. 11 for memory channel programming.

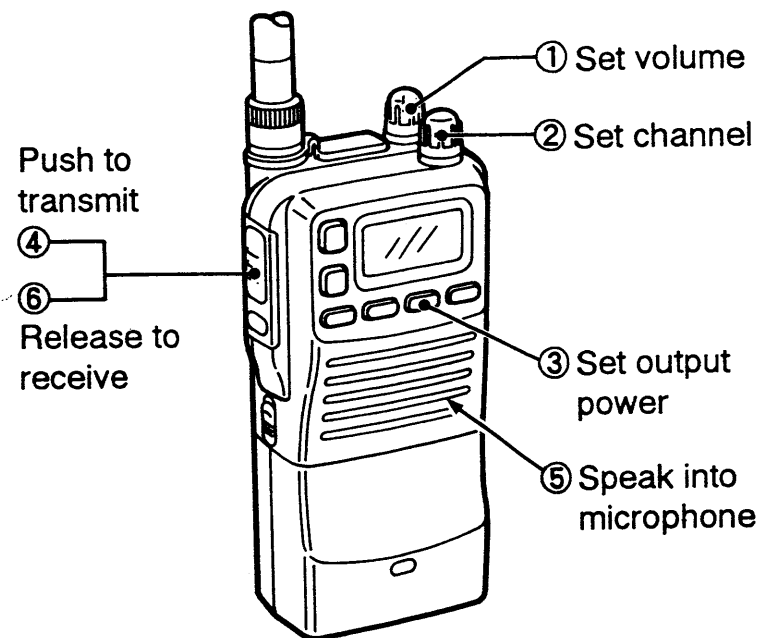
### 3 BASIC OPERATION

## Receiving and transmitting

**CAUTION:** Transmitting without an antenna may damage the transceiver.

- ① Rotate [OFF/VOL] clockwise to turn power ON, then set to the 12 o'clock position.
  - Use the squelch function to mute any audio noise if necessary. Refer to page at right for details.
- ② Rotate [CHANNEL] to select the desired channel.
  - When receiving a signal, **BUSY** appears and audio is emitted from the speaker.
  - Further adjustment of [OFF/VOL] may be necessary at this point.
- ③ Push [H/L] to select the output power if necessary.
  - "LOW" appears when low power is selected.
  - Choose low power to conserve battery power; choose high power for longer distance communications.
- ④ Push and hold [PTT] to transmit.
  - **TX** appears.
- ⑤ Speak into the microphone.
- ⑥ Release [PTT] to receive.

**IMPORTANT:** To maximize the readability of your transmitted signal, pause a few sec. after pushing [PTT], hold the microphone 10 to 15 cm from your mouth and speak at a normal voice level.



### CHANNEL RESTRICTIONS

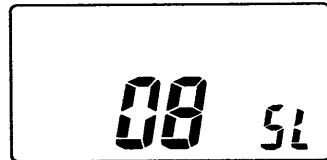
CHANNEL NUMBER	INTERNATIONAL CHANNELS	U.S.A. CHANNELS
13	No restriction	Low power only
15	Low power only	Receive only
17	Low power only	
67	No restriction	Low power only
70	Low power only	

## ■ Adjusting the squelch

The IC-M10E has a squelch even though there is no control knob for it. In order to receive signals properly, as well as for scan to function, the squelch must be adjusted to a suitable level.

As a general rule, the squelch should be adjusted to its threshold point i.e. the point where audio noise is just muted.

- ① While pushing [FUNC], rotate the channel selector.
  - The first "click" of the channel selector indicates the current squelch level.
  - There are 9 squelch levels to choose from:
    - 0 is completely open (all signals, including noise, are received);
    - 8 is completely closed (only strong signals can be received).
- ② Release [FUNC] when the desired squelch level is indicated in the function display.
  - The squelch indicator disappears.



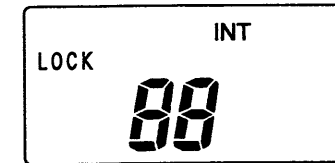
Level 8: squelch closed

**NOTE:** The squelch indicator does not appear when adjusting the squelch during scanning or dual/tri-watch.

## ■ Lock function

This function electronically locks all keys and switches to prevent accidental frequency changes and function access.

- ① While pushing [FUNC], push [LIGHT•].
  - "LOCK" appears.
  - Only [PTT], [H/L] and [LIGHT] are functional.
- ② To cancel the function, repeat step ① above.
  - "LOCK" disappears from the function display.



## ■ Function display backlighting

This is convenient for nighttime operation.

- ① Push [LIGHT] to turn the function display backlighting ON.
  - The backlighting automatically turns OFF after 5 sec. if no other keys or switches are pushed during that time.
  - To conserve battery power, use the backlighting only when necessary.
- ② To turn the function display backlighting OFF before 5 sec. have elapsed, push [LIGHT] again.

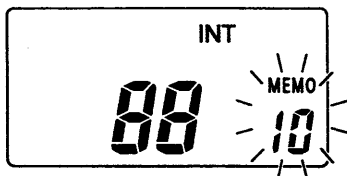
## Memory channels

◇ To program:

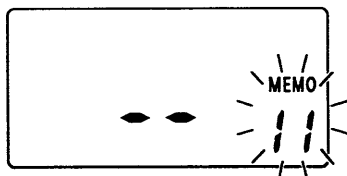
① Push [MEMO] to select a memory channel.

② While pushing [FUNC], push [MEMO•MW].

- "MEMO" and the memory channel number flash.

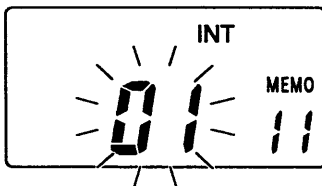


③ Rotate [CHANNEL] until the desired memory appears.

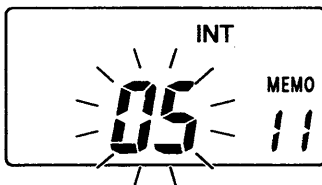


④ Push [MEMO] again.

- Channel number flashes.

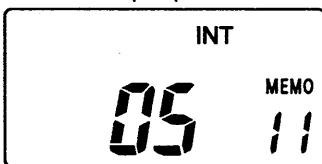


⑤ Rotate [CHANNEL] until the desired channel appears.



⑥ While pushing [FUNC], push [MEMO•MW] to complete programming.

- Channel number stops flashing.



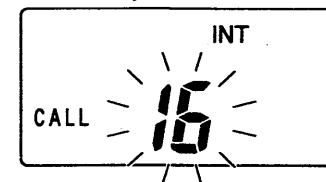
## Call channel

◇ To program:

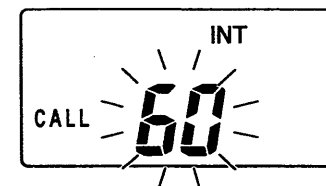
① Push [C] to select the call channel.

② While pushing [FUNC], push [C].

- The previously selected regular channel flashes.

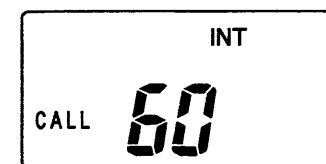


③ Rotate [CHANNEL] until the desired channel appears.



④ While pushing [FUNC], push [C] again to complete programming.

- The call channel stops flashing.

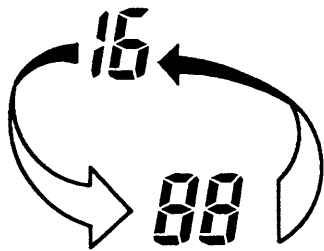


## ■ Description

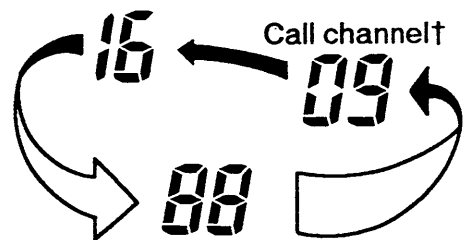
Dualwatch monitors ch 16 while you are receiving another channel; tri-watch\* monitors ch 16 and the call channel while receiving another channel. Select dualwatch or tri-watch in advance using SET mode (p. 15).

### DUALWATCH/TRI-WATCH SIMULATION

#### Dualwatch



#### Tri-watch



†Differs depending on versions.

- If a signal is received on channel 16, dualwatch/tri-watch pauses on channel 16 until the signal disappears.
- If a signal is received on the call channel during tri-watch, tri-watch becomes dualwatch until the signal disappears.
- To transmit on the selected channel during dualwatch/tri-watch, push and hold [PTT].

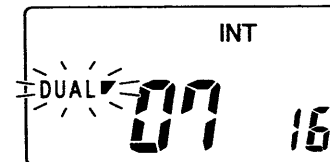
## ■ Operation

- ① Select the desired operating channel.
- ② Push [DUAL] to start dualwatch/tri-watch.\*
  - "DUAL" blinks during dualwatch; "DUAL" blinks during tri-watch.
  - Tri-watch becomes dualwatch when receiving a signal on the call channel.
- ③ To cancel dualwatch/tri-watch, push [DUAL] again.

**[EXAMPLE]:** Operating tri-watch on INT channel 07.

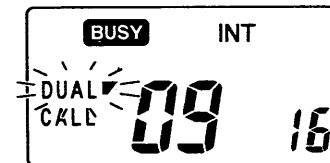
Push

[DUAL]

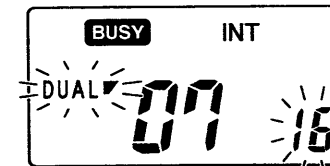


Tri-watch starts.

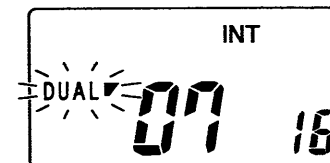
16 appears during dual/tri-watch.



Signal received on call channel.



Signal received on channel 16 takes priority.



Tri-watch resumes after the signal disappears.

\*Spain version does not have the tri-watch function.

## Scan types

Scanning is an efficient way to locate signals quickly over a wide frequency range. The transceiver has 4 scan types:

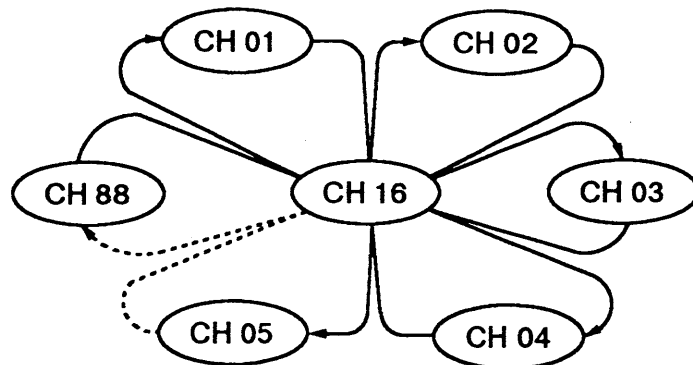
- Priority scan (regular ch)
- Normal scan (regular ch)
- Priority scan (memory ch)
- Normal scan (memory ch)

**NOTE:** Some versions have no scan function and some version have priority scan only.

In addition, channels can be locked out of any scan type. Lock out channels which inconveniently stop scanning, such as beacon channels.

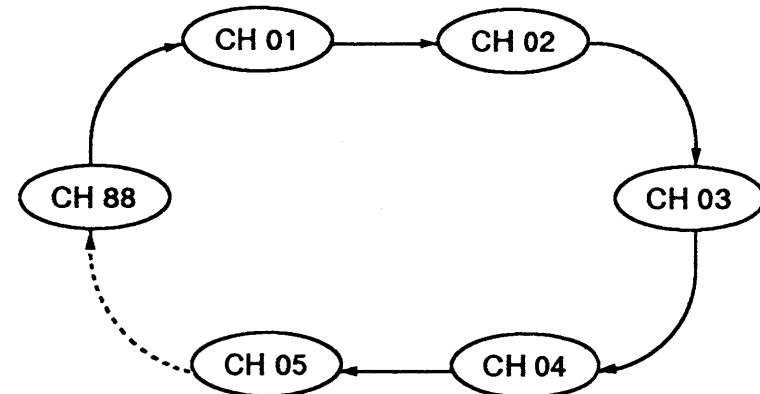
**NOTE:** A paused channel is not backed up automatically. Push [16] to stop the scan then wait 2 sec. before turning power OFF, otherwise, the previous channel appears when turning power ON again.

### Priority scan



Priority scans search through all channels/memory channels in sequence while monitoring channel 16. When a signal is detected on channel 16, scan pauses until the signal disappears; when a signal is detected on a channel other than channel 16, scan becomes dualwatch until the signal disappears.

### Normal scan



Normal scans, like priority scans, search through all channels/memory channels in sequence. However, unlike priority scan, channel 16 is only checked in sequence as other channels/memory channels are.





## Starting a scan

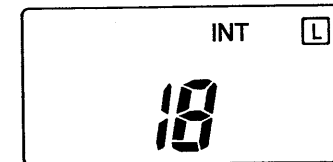
Set priority scan or normal scan in advance using SET mode (see p. 15).

- ① Make sure channel 16 or the call channel is not selected.
  - Select a regular channel or memory channel (see p. 8).
- ② Make sure the squelch is set to its threshold point. (p. 10)
- ③ Push and hold [DUAL•SCAN] for 2 seconds.
  - “SCAN” appears and flashes in the function display.
  - When a signal is detected, scan pauses until the signal disappears. (Ch 16 is still monitored during priority scan.)
  - Rotate the channel selector to change the scanning direction.
- ④ To stop the scan, push [DUAL•SCAN].
  - “SCAN” disappears.
  - Pushing [16], [C] or [MEMO] also stops the scan.

## Channel lockout

For more efficient scanning, set unwanted channels as lockout channels. Channels set as lockout channels will be skipped during scanning. Channel lockout is assigned to regular channels and memory channels independently.

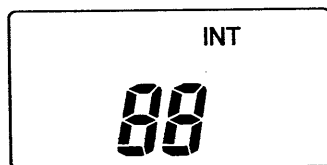
- ① Select the channel to be locked out (either a regular channel or a memory channel).
  - Channel 16 or the call channel CANNOT be locked out.
- ② While pushing [FUNC], push [DUAL•SCAN ].
  - “” appears in the function display and the channel is locked out.
- ③ To unlock a channel, repeat step ② above.



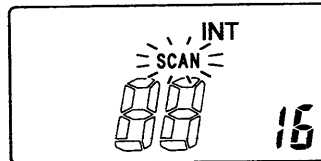
This example shows a regular channel locked out.

### Starting a scan (example — priority scan of regular channels):

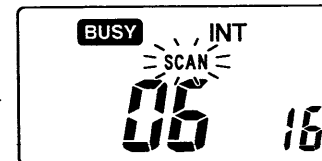
Push [16] or [MEMO] to select a regular channel if necessary.



Push for 2 secs. Scan starts



Scan pauses when receiving a signal and audio is emitted.



Push to stop the scan.

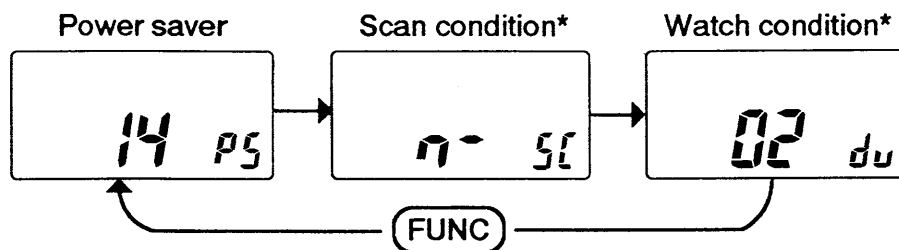


## SET mode programming

SET mode is used to change the conditions of 3 transceiver functions: the power saver function, the dual/tri-watch\* function and the scan\* function.

- ① Turn power OFF.
- ② While pushing [FUNC], turn power ON and continue pushing [FUNC] until the display appears.
- ③ After the display appears, release [FUNC].
- ④ Push [FUNC] to select the desired item, if necessary.
- ⑤ Rotate [CHANNEL] to select the desired condition of the item as shown in the table at right.
- ⑥ To exit SET mode, push [16].
  - Turning power OFF, then ON again also exits SET mode.


These displays show the default settings.



## SET mode items

DISPLAY	CONDITION	COMMENT
00 PS	Power saver OFF	The power saver function helps conserve battery power by automatically resting the receiver circuit when the transceiver is idle. For maximum battery conservation, choose the highest duty cycle:
14 PS	Power saver duty cycle 1 : 4	
18 PS	Power saver duty cycle 1 : 8	
P- SC	Priority scan*	Select priority scan if you want to monitor the distress channel (16) while scanning.
n- SC*	Normal scan*	
02 DU*	Dualwatch operation	Choose tri-watch if you want to monitor the call channel in addition to channel 16 and a selected channel.
03 DU*	Tri-watch operation*	

\*Some versions do not have the scan functions or have priority scan only. The tri-watch function is not available for some versions. Scan and watch conditions do not appear for these versions.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF
No power comes ON.	<ul style="list-style-type: none"> <li>• The battery is exhausted.</li> <li>• Bad connection to the battery pack.</li> </ul>	<ul style="list-style-type: none"> <li>• Recharge the battery pack.</li> <li>• Check the connection to the transceiver.</li> </ul>	p. 3,4 p. 6
No sound comes from the speaker.	<ul style="list-style-type: none"> <li>• Squelch level is too deep.</li> <li>• [OFF/VOL] is turned completely CCW.</li> </ul>	<ul style="list-style-type: none"> <li>• Set squelch to the threshold point.</li> <li>• Set [OFF/VOL] to a suitable level.</li> </ul>	p. 10 p. 9
Transmitting is impossible, or high power cannot be selected.	<ul style="list-style-type: none"> <li>• Some channels are for low power only.</li> <li>• The battery is exhausted.</li> <li>• The output power is set to low.</li> </ul>	<ul style="list-style-type: none"> <li>• Change channels.</li> <li>• Replace or charge the batteries.</li> <li>• Push [H/L] to select high output power.</li> </ul>	p. 8 p. 3,4 p. 9
The displayed channel cannot be changed.	<ul style="list-style-type: none"> <li>• Lock function is activated.</li> <li>• Channel 16 mode has been selected.</li> <li>• Dual/tri-watch has been activated.</li> <li>• Scan has been activated.</li> </ul>	<ul style="list-style-type: none"> <li>• While pushing [FUNC], push [LIGHT•].</li> <li>• Push [16] to return to normal operation.</li> <li>• Push [DUAL•SCAN] to cancel dual/tri-watch.</li> <li>• Push and hold [DUAL•SCAN] to cancel scan.</li> </ul>	p. 10 p. 8 p. 12 p. 14
Scanning or dual-watch/tri-watch does not function.	<ul style="list-style-type: none"> <li>• Channel 16 mode has been selected.</li> <li>• The squelch is open.</li> </ul>	<ul style="list-style-type: none"> <li>• Push [16] to return to normal operation.</li> <li>• Set squelch to the threshold point.</li> </ul>	p. 8 p. 10
Memory scan does not function.	<ul style="list-style-type: none"> <li>• Not enough memory channels are programmed with channel information.</li> </ul>	<ul style="list-style-type: none"> <li>• Program 2 or more memory channels with channel information.</li> </ul>	p. 11
Dualwatch functions but tri-watch doesn't or vice versa.	<ul style="list-style-type: none"> <li>• You must set the transceiver to operate one or the other.</li> </ul>	<ul style="list-style-type: none"> <li>• Select dualwatch or tri-watch operation in SET mode.</li> </ul>	p. 15

## Specifications

### • GENERAL

Frequency coverage	: Transmit 156–157.5 MHz
	Receive 156–163 MHz
Mode	: FM (16K0G3E)
Channel spacing	: 25 kHz
Power supply requirement	: Icom battery pack (see table on p. 19)
Frequency stability	: $\pm 0.0005\%$ ( $-20^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ )
Usable temperature range	: $-20^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
Dimensions	:
with BP-130A/BP-160	60(W) $\times$ 127(H) $\times$ 40(D) mm
with BP-174	60(W) $\times$ 155(H) $\times$ 40(D) mm (projections not included)
Weight	:
with BP-130A (incl. 6 dry cells)	300 g
with BP-160	310 g
with BP-174	422 g

### • TRANSMITTER

Modulation system	: Variable reactance phase modulation
Max. frequency deviation	: $\pm 5.0$ kHz
Spurious emissions	: $0.25 \mu\text{W}$

### Output power and current drain:

with BP-174	High 6 W (1.8 A)
	Low 0.5 W (0.9 A)
with BP-130A/BP-160	High 2.5 W (1.2 A)
	Low 0.5 W (0.9 A)

### • RECEIVER

Receive system	: Double-conversion superheterodyne
Sensitivity (12 dB SINAD)	: $0.35 \mu\text{V}$
Squelch sensitivity	: Less than $0.3 \mu\text{V}$ (at threshold)
Intermodulation rejection ratio	: 68 dB
Spurious response rejection ratio	: 70 dB
Adjacent channel selectivity	: 70 dB
Audio output power	: 500 mW with an $8 \Omega$ load
Current drain (w/supplied battery pack)	: Max. audio 300 mA max. Power saved 19 mA typical (squelched)

All stated specifications are subject to change without notice or obligation.

## Channel list

### • International channels

CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)	
	TX	RX		TX	RX		TX	RX		TX	RX		TX	RX		TX	RX
01	156.050	160.650	11	156.550	156.550	21	157.050	161.650	62	156.125	160.725	72	156.625	156.625	84	157.225	161.825
02	156.100	160.700	12	156.600	156.600	22	157.100	161.700	63	156.175	160.775	73	156.675	156.675	85	157.275	161.875
03	156.150	160.750	13	156.650	156.650	23	157.150	161.750	64	156.225	160.825	74	156.725	156.725	86	157.325	161.925
04	156.200	160.800	14	156.700	156.700	24	157.200	161.800	65	156.275	160.875	77	156.875	156.875	87	157.375	161.975
05	156.250	160.850	15*	156.750	156.750	25	157.250	161.850	66	156.325	160.925	78	156.925	161.525	88	157.425	162.025
06	156.300	156.300	16	156.800	156.800	26	157.300	161.900	67	156.375	156.375	79	156.975	161.575			
07	156.350	160.950	17*	156.850	156.850	27	157.350	161.950	68	156.425	156.425	80	157.025	161.625			
08	156.400	156.400	18	156.900	161.500	28	157.400	162.000	69	156.475	156.475	81	157.075	161.675			
09	156.450	156.450	19	156.950	161.550	60	156.025	160.625	70*	156.525	156.525	82	157.125	161.725			
10	156.500	156.500	20	157.000	161.600	61	156.075	160.675	71	156.575	156.575	83	157.175	161.775			

\*Low power only.

### • U.S.A. channels

CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)	
	TX	RX		TX	RX		TX	RX		TX	RX		TX	RX		TX	RX
01A	156.050	156.050	11	156.550	156.550	20A	157.000	157.000	61A	156.075	156.075	71	156.575	156.575	83A	157.175	157.175
02A	156.100	156.100	12	156.600	156.600	21A	157.050	157.050	62A	156.125	156.125	72	156.625	156.625	84	157.225	161.825
03A	156.150	156.150	13*	156.650	156.650	22A	157.100	157.100	63A	156.175	156.175	73	156.675	156.675	85	157.275	161.875
04A	156.200	156.200	14	156.700	156.700	23A	157.150	157.150	64A	156.225	156.225	74	156.725	156.725	86	157.325	161.925
05A	156.250	156.250	15†	156.750	156.750	24	157.200	161.800	65A	156.275	156.275	77	156.875	156.875	86A	157.325	157.325
06	156.300	156.300	16	156.800	156.800	25	157.250	161.850	66A	156.325	156.325	78A	156.925	156.925	87	157.375	161.975
07A	156.350	156.350	17*	156.850	156.850	26	157.300	161.900	67*	156.375	156.375	79A	156.975	156.975	88	157.425	162.025
08	156.400	156.400	18A	156.900	156.900	27	157.350	161.950	68	156.425	156.425	80A	157.025	157.025	88A	157.425	157.425
09	156.450	156.450	19A	156.950	156.950	28	157.400	162.000	69	156.475	156.475	81A	157.075	157.075			
10	156.500	156.500	20	157.000	161.600	60A	156.025	156.025	70*	156.525	156.525	82A	157.125	157.125			

\*Low power only.

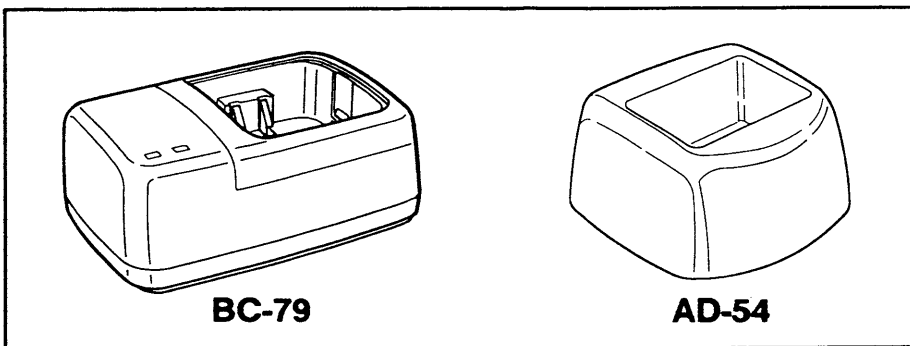
†Transmit is inhibited.

# 10 OPTIONS

## Options

Some versions cannot use all options listed below since type approval for the IC-M10E varies between countries. Ask your Icom Dealer which options are available.

### ◇ CHARGERS AND CABLES



- **AD-54 BATTERY CHARGE ADAPTER**  
Used for regular charging of battery packs. Supplied with some versions. Charging time: 15 to 20 hrs.
- **BC-79 DESKTOP CHARGER + AD-28 CHARGE ADAPTER**  
Used for rapid charging of battery packs. Charging time: 1 to 3 hrs.
- **BM-113U/E AC ADAPTER**  
Connects to an AC outlet for use with the AD-54. Supplied with some versions.
- **CP-1 CIGARETTE LIGHTER CABLE**  
Connects to a ship's or vehicle's cigarette lighter socket (12\* or 24 V) for use with the AD-54.

\*The BP-174 cannot be charged when using a 12 V socket.

### • CP-13 CIGARETTE LIGHTER CABLE

Connects to a ship's or vehicle's cigarette lighter socket (12 V only) for use with the BC-79.

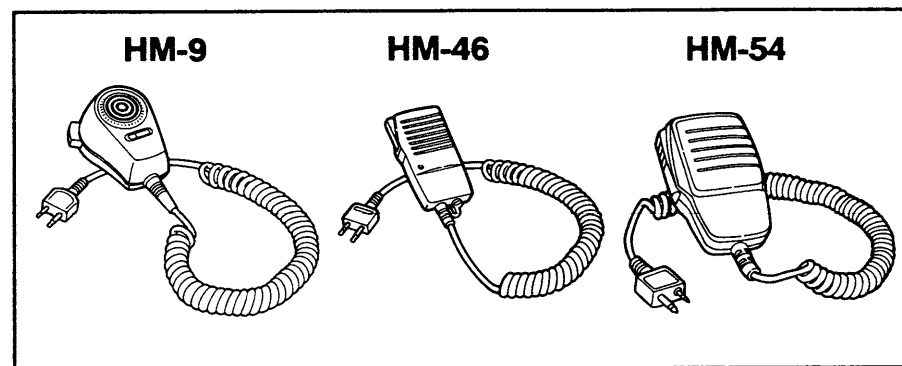
### ◇ BATTERY PACKS

BATTERY PACK	VOLTAGE/CAPACITY	OUTPUT POWER*	HEIGHT
<b>BP-130A</b>	Battery case for 6 × AA(R6) cells	2.5 W	50 mm
<b>BP-157A</b>	7.2 V/900 mAh	2.5 W	50 mm
<b>BP-160</b>	7.2 V/700 mAh	2.5 W	50 mm
<b>BP-174</b>	12 V/600 mAh	6 W	78.2 mm

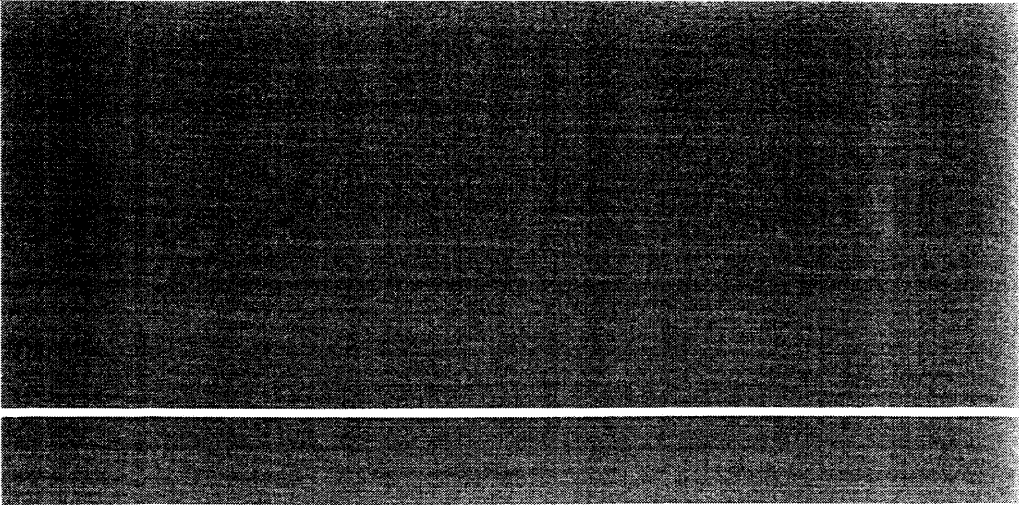
\*Output power differs depending on version.

### ◇ OTHERS

- **HM-9** speaker-microphone
- **HM-46** speaker-microphone
- **HM-54** speaker-microphone
- **HS-51** headset



**Count on us!**



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